

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°14'54" North, 17°19'38" East, Elevation: 141 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 1.7 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 13.0% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 2.9%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 27.3%

| Fixed system: inclination=38 deg., orientation=-30 deg. | | | | |
|------------------------------------------------------------|------|------|------|------|
| Month | Ed | Em | Hd | Hm |
| Jan | 1.98 | 61.3 | 1.44 | 44.7 |
| Feb | 3.43 | 96.2 | 2.55 | 71.5 |
| Mar | 5.06 | 157 | 3.96 | 123 |
| Apr | 6.63 | 199 | 5.38 | 161 |
| May | 6.86 | 213 | 5.73 | 178 |
| Jun | 6.85 | 206 | 5.79 | 174 |
| Jul | 6.92 | 215 | 5.90 | 183 |
| Aug | 6.67 | 207 | 5.65 | 175 |
| Sep | 5.40 | 162 | 4.42 | 133 |
| Oct | 4.25 | 132 | 3.35 | 104 |
| Nov | 2.35 | 70.4 | 1.77 | 53.2 |
| Dec | 1.65 | 51.0 | 1.20 | 37.2 |
| Year | 4.84 | 147 | 3.94 | 120 |
| Total for year | | 1770 | | 1440 |

Ed: Average daily electricity production from the given system (kWh)

Em: Average monthly electricity production from the given system (kWh)

Hd: Average daily sum of global irradiation per square meter received by the modules of the given system (kWh/m2)

Hm: Average sum of global irradiation per square meter received by the modules of the given system (kWh/m2)

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